

WHT

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/530,937	LUKIN, ALEKSANDR FYEDOROVICH	
	<b>Examiner</b>	<b>Art Unit</b>	
	George Eng	2643	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/29/2005.
2. ☒ The allowed claim(s) is/are 1,2,4-6,8,9,11 and 12.
3. ☒ The drawings filed on 05 May 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____  |

  
**GEORGE ENG**  
**PRIMARY EXAMINER**

## EXAMINER'S AMENDMENT AND STATEMENT OF REASONS FOR ALLOWANCE

### *Examiner's Amendment*

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with J. Harold Nissen (Reg. No. 17,283) on 5/12/2005.

2. The application has been amended as follows:

1. (Currently Amended) A telephone network for a structured site, essentially of a business office type, consisting essentially of a common single bus of a local external computer network connecting computers at the transmitting and receiving ends of the telephone network for [a structural] the structured site and telephone sets connected directly to said telephone network to provide telephone communication between the parties at the transmitting and receiving ends through said local external computer network, wherein [it] said local external computer network is provided with a computer telephony server connected directly to the common single bus of the local computer network and to a general telephone network, each telephone set is provided with [an] a telephone set interface, each telephone set interface being connected, directly through a telephone adapter and a network adapter connected in series therewith, to the common single bus of the local external computer network connecting

Art Unit: 2643

computers, the [interface] telephone adapter being capable of converting analog/digital signals adapted to the clock frequency of the local external computer network, user call signals into addresses of other [interfaces] telephone sets connected to said local external computer network, and hang-up signals whereby the telephone sets can communicate with each other without computers by the telephone sets connected to the local computer network, furthermore the [interface] telephone adapter has a transmission channel and reception channels, the transmission channel having a signal detector-distributor with an input connected to a telephone set, a first output of said signal detector-distributor being connected to the input of a tone dialing recognition device having its output connected to the input of a recognized number transmission device, which has its output connected to the local external computer network, a second output of the signal detector-distributor being connected to the input of an analog-to-digital converter having its output connected to the input of a compressor whose output is connected to a processor unit having software to allow exchange of digital data to be effected within the framework of common network protocols, and the reception channels having a voice and tone signal transmission priority device having its output connected to the telephone set, and a first input connected to the output of a call signal dialer, whose input is connected to a call number data converter having its input connected to the local external computer network, a second input of the voice and tone signal transmission priority device being connected to the output of a voice signal transmitter, whose input is connected to the output of a decompressor having its input connected to said processor unit.

2. (Currently amended) A network as claimed in claim 1, wherein [at least some of the] two or more computers connected to said telephone network are provided with multimedia software to allow direct voice telephone communication.

5. (Currently Amended) A system to maintain telephone communication between remote structured sites, comprising, at a first site, an internal telephone network including a common bus of a local computer network to connect computers at the transmitting and receiving ends of the system, a computer telephony server connected to the common bus of the local computer network of said first site and to the general telephone network, and telephone sets to provide telephone communication between parties at the transmitting and receiving ends through said local computer network, each telephone set is provided with [an] a telephone set interface, each telephone set interface being directly connected through a telephone adapter and a network adapter connected in series therewith to the common bus of the local computer network, the [interface] telephone adapter being capable of converting analog/digital signals adapted to the clock frequency of the local computer network, user call signals into the addresses of other [interfaces] telephones connected to said local computer network, and hang-up signals, each successive site having an internal telephone network duplicating the internal telephone network of the first site, the local computer network of each site being provided with a router connected thereto and to a router of the local computer network of at least one other site through a communication channel of the computer networks of the remote structured sites whereby the telephone sets can communicate directly with each other without computers, furthermore the [interface] telephone adapter has a transmission channel and at least one reception channel, the transmission channel having a signal detector-distributor connected to the input of the telephone

Art Unit: 2643

set and a first output connected to the input of a tone dialing recognition device, whose output is connected to the input of a recognized number transmission device having its output connected to the local computer network, a second output of the signal detector-distributor being connected to the input of an analog-to-digital converter having its output connected to the input of a compressor whose output is connected to a processor unit provided with software to allow exchange of digital data to be effected within the framework of common network signal transmission priority device being connected to the output of a voice signal transmitter, whose input is connected to the output of a decompressor having its input connected to said processor unit.

6. (Currently amended) A system as claimed in claim 5, wherein [at least some of the] two or more computers connected to said internal telephone network are provided with multimedia software to allow direct voice telephone communication and said network is free of specialized switching devices.

9. (Currently Amended) A telephone network for a structured site, essentially of a business office type, comprising a common bus of a local computer network connecting computers at the transmitting and receiving ends of the telephone network for [a] the structured site and telephone sets to provide telephone communication between the parties at the transmitting and receiving ends through said local computer network, each said telephone set being provided with [an] a telephone set interface, each telephone set interface being connected, directly through a telephone adapter and a network adapter connected in series therewith, to the common bus of the local computer network, the [interface] telephone adapter being capable of converting analog/digital signals adapted to the clock frequency of the local computer network,

Art Unit: 2643

user call signals into addresses of other [interface] telephone sets connected to said local computer network, and hang-up signals whereby the telephone sets can communicate with each other without computers by the telephone sets connected to the local computer networks, furthermore the [interface] telephone adapter has a transmission channel and at least one reception channel, the transmission channel having a signal detector-distributor with an input connected to a telephone set, a first output of said signal detector-distributor being connected to the input of a tone dialing recognition device having its output connected to the input of a recognized number transmission device, which has its output connected to the local computer network, a second output of the signal detector-distributor being connected to the input of an analog-to-digital converter having its output connected to the input of a compressor whose output is connected to a processor unit having software to allow exchange of digital data to be effected within the framework of common network protocols, and at least one reception channel having a voice and tone signal transmission priority device having its output connected to the telephone set and a first input connected to the output of a call signal dialer, whose input is connected to a call number data converter having its input connected to the local computer network, a second input of the voice and tone converting analog/digital signals adapted to the clock frequency of the local computer network, user call signals into addresses of other [interface] telephone sets connected to said local computer network, and hang-up signals.

12. (Currently Amended) The network as claimed in claim 9, wherein [at least some of the] two or more computers connected to said network are provided with multimedia software to allow direct voice telephone communication.

***Examiner's Statement of Reasons for Allowance***

3. The following is an examiner's statement of reasons for allowance:

Applicant's invention is drawn to integrate a telephone network with an office computer network in order to provide a simpler and less expensive communication network of communicating voice message between local telephone line users through general computer network at an individual local site (i.e., the telephone network of a structured site, preferably of a business office type, comprising a local computer network linking computers and telephone sets, which the computer network is provided with a computer telephony server connected to the local computer network and to a general telephone network, wherein each telephone set being connected directly, through a telephone adapter and a network adapter connected in series therewith, to the local computer network, and the telephone adapter being operable for converting analog/digital signals adapted to the clock frequency of the local computer network, user call signals into the address of other telephone sets connected to the local computer network, and hang-up signals.

Applicant's independent claims 1, 5 and 9 each recite, *inter alia*, a telephone network for a structured site, essentially of a business office type, with a structure as defined in the specification (pages 7-13) including a common bus of a local computer network connecting computers at the transmitting and receiving ends of the telephone network for the structured site and telephone sets to provide telephone communication between the parties at the transmitting and receiving ends through said local computer network, each said telephone set being provided with a telephone set interface, each telephone set interface being connected, directly through a telephone adapter and a network adapter connected in series therewith, to the common bus of the

Art Unit: 2643

local computer network, the telephone adapter being capable of converting analog/digital signals adapted to the clock frequency of the local computer network, user call signals into addresses of other telephone sets connected to said local computer network, and hang-up signals whereby the telephone sets can communicate with each other without computers by the telephone sets connected to the local computer networks. Applicant's claims 1, 5 and 9 comprise a particular combination of elements, which is neither taught nor suggested by the prior art.

Accordingly Applicant's claims are allowed for these reasons and for the reasons recited in Applicant's Amendments filed 4/11/2002, 8/27/2002, 3/3/2003, 8/29/2003, 3/4/2004, 8/9/2004, and 4/29/2005.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Eng whose telephone number is (571) 272-7495. The examiner can normally be reached on Tue-Fri 7:30 AM-6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis A. Kuntz can be reached on (571) 272-7499. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.



Art Unit: 2643

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



George Eng  
Primary Examiner  
Art Unit 2643